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UNIVERSAL DOCUMENTATION SYSTEM

STS OPS FLIGHT PRD, VOLUME I

PRD/PSP/OR/OD

UNCLASSIFIED

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 1031 - INDEX

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04

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ITEM NUMBER: N/A

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SECTION 1060 - KEY TECHNICAL PERSONNEL

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04
===== =
[PRD] DATABASE RECORD: 20915 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 03/12/01
 INITIAL DATE: 02/23/90
ITEM NUMBER: H9 DATE LAST CHANGED: 07/03/02
SECTION: 1060 TIME LAST CHANGED: 08:04:37

REQUESTER: MSFC
TEST CODE: INFO
TRACKING NO. F002-4 F007-1 F01-03-1

1. NAME: NELDA HILEY (R&R MANAGER)
2. ORGANIZATION: FD43
3. TITLE/OFFICE: FLIGHT PROJECTS DIRECTORATE
4. BUSINESS ADDR: Marshall Space Flight Center, Alabama 35812
5. TELEPHONE NO.: (256) 544-5774
6. FACSIMILE: (256) 544-2107

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SECTION 2000 - TEST REQUIREMENTS/SUPPORT PLANS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04
===== =
[PRD] DATABASE RECORD: 530426 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 06/13/95
INITIAL DATE: 06/13/95
ITEM NUMBER: HT49G DATE LAST CHANGED: 11/19/02
SECTION: 2000 TIME LAST CHANGED: 15:53:26

REQUESTER: MSFC JSC
TEST CODE: LATROT STSALL
TRACKING NO. F506-4

1. DESCRIPTION: SN UPS/DQM REQUIREMENTS

The SN is required to have the capability of transmitting UPD/DQM information in 4800 bit NASCOM blocks of non-secure data receive for all forward and return links to the MCC, and HOSC. The UPD/DQM is a once per 5 second message (per vehicle) containing forward and return links status of the WSC.

Reference JSC/GSFC ICD JSC No. 11534 for details and related information.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/20/95

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SECTION 2100 - METRIC DATA

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04
===== =
[PRD] DATABASE RECORD: 380518 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 05/24/94
INITIAL DATE: 03/25/88
ITEM NUMBER: H71E DATE LAST CHANGED: 07/19/02
SECTION: 2100 TIME LAST CHANGED: 11:49:17

REQUESTER: MSFC
SUBREQUESTER: ER
TEST CODE: ER LAUNCH STSALL
TRACKING NO. F008-1 F405-5

1. DESCRIPTION: SRB/C-BAND REQUIREMENTS

 MSFC requires land based radar to track SRBs from SRB/ET
 separation to LOS. See 2100, T72E, DBR 382230.

SUPPLIER: ER AGENCY: 45 RANS/DOS (E - 45TH SPACE WING)
SUBSUPPLIER: ER

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/10/94

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SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04
===== =
[PRD] DATABASE RECORD: 8402 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 11/28/01
INITIAL DATE: 01/12/87
ITEM NUMBER: H1.5GT DATE LAST CHANGED: 11/22/02
SECTION: 2200 TIME LAST CHANGED: 11:49:22

REQUESTER: MSFC
SUBREQUESTER: MDRC
TEST CODE: ALPHSE LAUNCH MSYSEN STSALL

TRACKING NO. F007-1 F109-7 F111-1 F402-1 F507-4
F702-1 F801-2

1. DESCRIPTION: MSFC RT OD TLM REQUIREMENT

MSFC requires all available real-time OD data, provided by JSC
output via GSFC from Launch -24 hours to Landing.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: GSFC450.3 MIL WLP

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/20/01

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 11/28/01

RESPONSE: If Payload Contingency Communications (PCC) is required
for classified payloads; JSC will inhibit the OD output
(TLM & Voice) to all external centers. Upon completion
of the PCC, centers may request a playback of the telemetry
data.

[PRD] DATABASE RECORD: 388727 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 11/04/02
INITIAL DATE: 05/10/91
ITEM NUMBER: H4GT DATE LAST CHANGED: 03/21/03
SECTION: 2200 TIME LAST CHANGED: 14:00:09

REQUESTER: MSFC
TEST CODE: LAUNCH STSALL

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SECTION 2200 - TELEMETRY DATA

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[PRD] DATABASE RECORD: 388727
ITEM NUMBER: H4GT

TRACKING NO. F02-11-1 F105-7 F505-1 MS039

1. DESCRIPTION: GN/SN SSME DUMP OPS1 RECORDER #1/SSR #2 SSME PLAYBACK

MSFC requires OPS Recorder #1 or SSR #2 to record SSME 60 KBPS data for the time period T -330 seconds through MECO +600 seconds for subsequent dump to GN and playback to MSFC. Playback to MSFC should be all engines in a forward direction in NASCOM format at a 2:1 rate. The dumps and playback should be performed as early in the mission as possible. JSC is requested to retain this data on the onboard recorder/SSR until MSFC has validated the data. MSFC will process the data in near real-time and advise JSC within 1 hour of receipt of valid data.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: DSN GSFC/530 MIL

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/18/03

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
SUBSUPPLIER: USH-443C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/04/02

[PRD] DATABASE RECORD: 376761 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 08/20/02
INITIAL DATE: 01/30/91
ITEM NUMBER: HK23GKST DATE LAST CHANGED: 11/04/02
SECTION: 2200 TIME LAST CHANGED: 13:48:35

REQUESTER: MSFC KSC
SUBREQUESTER: PH-M2 UB-E1
TEST CODE: ALPHSE EORBIT STSALL
TRACKING NO. F02-08-1 F02-08-1A F02-08-5 F101-6 F102-5
F103-1 F302-10 F801-2 F801-3 F908-2
FSRR3901 FSRR3902 FSRR8901 RSRR3901

1. DESCRIPTION: KSC/MSFC REALTIME TELEMETRY

KSC and MSFC require real time downlink OD PCM telemetry data from JSC.

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SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04

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[PRD] DATABASE RECORD: 376761
ITEM NUMBER: HK23GKST

This data will be received at JSC from GN/SN/RTS supporting the mission. JSC will remote the data via NISN, to KSC via MILA and to MSFC.
MIL is required to receive and serialize these data (HDR telemetry 192Kbps; or LDR telemetry, 96 Kbps, as received) for input to the LPS for all missions. Data will be displayed in real time on the LCC Control Room consoles.

KSC Contacts: Jose Amador/UB-E1 321 867-3945
Debbie Awtonomow/PH-M2 321 861-3972
Dick Hartung/KSC/LPS/ 321 861-6572

MSFC Contacts: Gary Dempsey/UMS/NTI 256 544-5113

SUPPLIER: GSFC AGENCY: GSFC/450 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: GSFC1135 MIL

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/20/02
RESPONSE TRACKING: Z103-1

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: GSFC/450 PH-K1-A

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 08/20/02
RESPONSE: S-Band PM/OI 192 and 96 Kb/s to LPS/CCMSS/CCMS data will be furnished on assigned wideband lines for use in LCC control rooms 1, 2, or 3.

RESPONSE TRACKING: ZR3501 ZR3901 ZR3902 ZR8902 ZR9901

SUPPLIER: 21 SOPS AGENCY: 501/5 SOPS ()
SUBSUPPLIER: 21SOPS/VOS

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/20/02

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[PRD] DATABASE RECORD: 376761
ITEM NUMBER: HK23GKST

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/20/02

[PRD] DATABASE RECORD: 9960 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 03/28/88
INITIAL DATE: 03/28/88
ITEM NUMBER: H23.1K DATE LAST CHANGED: 07/19/02
SECTION: 2200 TIME LAST CHANGED: 14:13:06

REQUESTER: MSFC
TEST CODE: ALPHSE MIL STSALL

1. DESCRIPTION: MSFC REALTIME TELEMETRY

MSFC requires access to selected parameters via the KSC LPS
Common Data Buffer for display in the HOSC. Transmission to MSFC
will be via the HOSC FEP (Front End Processor) and direct KSC to
MSFC circuit.

SUPPLIER: KSC AGENCY: TM-LLP-3 (B/E/G/L/M/N/R/T/U FOR KPRD-I ITEMS)
SUBSUPPLIER: PZ-B2

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/28/88
RESPONSE: Selected parameters to MSFC/HOSC.

[PRD] DATABASE RECORD: 380172 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 02/18/97
INITIAL DATE: 01/14/86
ITEM NUMBER: H24G DATE LAST CHANGED: 07/03/02
SECTION: 2200 TIME LAST CHANGED: 08:04:59

REQUESTER: MSFC
SUBREQUESTER: F702-3
TEST CODE: LAUNCH STSALL

1. DESCRIPTION: SSME R/T DOWNLINKED DATA

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[PRD] DATABASE RECORD: 380172
ITEM NUMBER: H24G

MSFC requires SSME data recorded during Ascent from the SSO S-Band FM link to Mila LOS.

SUPPLIER: GSFC AGENCY: GSFC/450 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: GSFC/530 MIL

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/18/97

[PRD] DATABASE RECORD: 382075 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 08/21/03
INITIAL DATE: 02/07/90
ITEM NUMBER: HK25G DATE LAST CHANGED: 04/21/04
SECTION: 2200 TIME LAST CHANGED: 11:45:48

REQUESTER: MSFC KSC
SUBREQUESTER: I-PK-E3 ROC-OSB RPS/USK-669
TEST CODE: DATADS LATROT MIL STSALL

TRACKING NO. F03-08-3 F04-04-1 F303-4 F408-4 F903-4
MS164 RSRR5503

1. DESCRIPTION: SSME ONBOARD RECORDED DATA

All SSME data that is recorded onboard the SSO is required to be downlinked ASAP. This data downlinked via the SSO S-band FM link is to be recorded at the receiving GN stations. SSME data will be played back to KSC upon request. SSME dumps will be played back to MSFC ASAP on a routine basis.

NOTE: MIL and PDL to retain recorded SSME data on station for 21 days and during that time will be available for playback. Playbacks will be scheduled through the WSC Scheduling Office. After 21 days SSME tapes may be degaussed. Requests for data to be held beyond 21 days will be directed to the GSFC STDN Mission Manager (SMM) or Network Operations Manager (NOM).

TECHNICAL CONTACT: WSC Operations Supervisor (OS)(505) 527-7157

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

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[PRD] DATABASE RECORD: 382075
 ITEM NUMBER: HK25G

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/27/03
 RESPONSE: Shipment of tape within 12 hours is dependent on air freight
 schedules.

 [PRD] DATABASE RECORD: 234662 REQUIREMENT STATUS: APPROVED R
 DOCUMENT ID: FLT-I APPROVAL DATE: 05/15/95
 INITIAL DATE: 05/10/91
 ITEM NUMBER: GHT38G DATE LAST CHANGED: 04/21/04
 SECTION: 2200 TIME LAST CHANGED: 11:55:59

REQUESTER: GSFC MSFC JSC
 TEST CODE: EORBIT STSALL
 TRACKING NO. F04-04-1 F105-7 F505-1

1. DESCRIPTION: SN KU-BAND CHANNEL 2 REQUIREMENTS

The SN is required to have the capability to remote Ku-band
 Channel 2 data to MCC, GSFC, and MSFC via the Closed IONET circuit.
 In addition to Orbiter OD Dumps, data will include payload
 R/T or dump data.

SUPPLIER: GSFC AGENCY: GSFC/450 (GODDARD SPACE FLIGHT CENTER)
 SUBSUPPLIER: GSFC/534

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/19/95

 [PRD] DATABASE RECORD: 237506 REQUIREMENT STATUS: APPROVED R
 DOCUMENT ID: FLT-I APPROVAL DATE: 05/15/95
 INITIAL DATE: 05/10/91
 ITEM NUMBER: GHT39G DATE LAST CHANGED: 04/21/04
 SECTION: 2200 TIME LAST CHANGED: 11:58:24

REQUESTER: GSFC MSFC JSC
 TEST CODE: EORBIT STSALL
 TRACKING NO. F04-04-1 F105-7 F505-1

1. DESCRIPTION: SN KU-BAND CHANNEL 3 REQUIREMENTS

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[PRD] DATABASE RECORD: 237506
ITEM NUMBER: GHT39G

The SN is required to have the capability to remote Ku-band Channel 3 data to MCC, GSFC, and MSFC. Channel 3 bit rates within the bandwidth of the Closed IONET circuitry may be remotod. Channel 3 bit rates exceeding the Closed IONET circuitry bandwidth will be transmitted to MCC via the statistical mux.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: GSFC/530/534 GSFC/540

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/19/95

[PRD] DATABASE RECORD: 241151 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 11/04/02
INITIAL DATE: 03/28/88
ITEM NUMBER: H41GT DATE LAST CHANGED: 03/21/03
SECTION: 2200 TIME LAST CHANGED: 14:01:04

REQUESTER: MSFC
TEST CODE: LAEORB STSALL
TRACKING NO. F02-11-1

1. DESCRIPTION: SN SSME DUMP SUPPORT REQUIREMENTS

The SN is required to receive, record and remote the following data, as applicable to MSFC. Remoting the data will be direct to MSFC via GSFC:

1. MSFC requires an OPS Recorder #1/SSR #2 SSME dump at 960 Kb/s SSME dump at 960 Kb/s thru TDRS with direct relay to MSFC via GSFC. JSC is requested to retain data on the SSO onboard OPS Recorder #1/SSR #2 until MSFC has validated data. MSFC will process the data in near real time and advise JSC (within one hour) of receipt of valid data. Pre-launch testing of data circuits for this requirement and data transmission is required. SSME dump data relayed to MSFC should be recorded at WSC with the tape being retained for 24 hours and degaussed if P/B is not required.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

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[PRD] DATABASE RECORD: 241151
ITEM NUMBER: H41GT

SUBSUPPLIER: GSFC/WSC/534

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/18/03

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
SUBSUPPLIER: USH-443N

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 11/04/02
RESPONSE: JSC cannot guarantee that the OPS Recorder 31/SSR #2 SSME
dumps will always occur via TDRS. JSC will retain the
option to dump SSME data to GN (MIL) as covered is
Section 2200, Item H4G DBR 388727 and T29G DBR 392095.

[PRD] DATABASE RECORD: 242615 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 02/02/04
INITIAL DATE: 02/07/90
ITEM NUMBER: H43GT DATE LAST CHANGED: 02/02/04
SECTION: 2200 TIME LAST CHANGED: 15:42:41
REQUESTER: MSFC
TEST CODE: DATADS LAUNCH STSALL
TRACKING NO. F02-11-1 F04-01-2 F04-02-1 F702-1 F903-4

1. DESCRIPTION: OPS-2 RECORDER/SSR #1 DUMP TO MSFC

MSFC requires that the ascent phase OD through MET of 60 minutes from
the OD SSR will be dumped to the ground and recorded. The data shall
be played back to MSFC via the JSC/MSFC Playback OD back-feed/GSFC
Closed IONET interface as soon as possible after the dump is
completed.

In the event that the ascent OD data is dumped via TDRSS, the data
should be received at MSFC in real-time.

JSC will be the source of all OD SSR dump playbacks to MSFC.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: DSN GSFC/534 GSFC/562
MIL

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[PRD] DATABASE RECORD: 242615
ITEM NUMBER: H43GT

SUPPLIER COMMITMENT: NOACK RESPONSE DATE: 02/02/04

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
SUBSUPPLIER: USH-443C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/02/04

[PRD] DATABASE RECORD: 525304 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 11/28/01
INITIAL DATE: 12/13/93
ITEM NUMBER: H54GT DATE LAST CHANGED: 11/19/02
SECTION: 2200 TIME LAST CHANGED: 15:53:26

REQUESTER: MSFC
SUBREQUESTER: MDRC
TEST CODE: ALPHSE MSYSEN STSALL
TRACKING NO. F007-1 F01-08-2 F111-1 F402-1A FF312-2

1. DESCRIPTION: MSFC OD Dump Playback

MSFC requires playback of all OD dump data from Launch to Landing.

NOTE: Flight PRD Vol. II Annexes will take precedence over this
requirement.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/20/01

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 11/28/01

RESPONSE: JSC will provide OD playback data on a best effort/non
interference bases.

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SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04

===== =
[PRD] DATABASE RECORD: 348378 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 04/20/92
INITIAL DATE: 11/13/91
ITEM NUMBER: HT19G DATE LAST CHANGED: 11/22/02
SECTION: 2700 TIME LAST CHANGED: 11:49:22

REQUESTER: MSFC JSC
SUBREQUESTER: JSC/MT3 TVPLAN
TEST CODE: EORBIT STSALL
TRACKING NO. F110-3 F111-2 F204-3

1. DESCRIPTION: TDRSS TELEVISION REQUIREMENTS

The WSC is required to receive, record and remote Orbiter
real-time RT or PB downlinked TV to MCC. A full - transponder
TV transmission circuit between the WSC and MCC is required.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/22/92

[PRD] DATABASE RECORD: 349835 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 05/15/95
INITIAL DATE: 01/26/90
ITEM NUMBER: HT20G DATE LAST CHANGED: 11/19/02
SECTION: 2700 TIME LAST CHANGED: 15:53:26

REQUESTER: MSFC JSC
TEST CODE: EORBIT STSALL
TRACKING NO. F505-2

1. DESCRIPTION: TDRSS DATA COMMUNICATIONS REQUIREMENTS

The WSC is required to have the capability of remoting Ku-band
Channel 2, up to 2 MBS and channel 3 data, up to 48 MBS, to MCC and
MSFC via a DOMSAT channel.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/05/95

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04
===== =
[PRD] DATABASE RECORD: 349767 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 03/30/98
INITIAL DATE: 09/21/89
ITEM NUMBER: GHT24G DATE LAST CHANGED: 11/19/02
SECTION: 2700 TIME LAST CHANGED: 15:53:26

REQUESTER: GSFC MSFC JSC
TEST CODE: ALPHSE STSALL
TRACKING NO. F204-3 F803-5

1. DESCRIPTION: JSC AND MSFC STAT MUX

JSC and MSFC require a Statistical Multiplexer system to operate
on the 50 MBPS WSC to MSFC and JSC full transponder circuit.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/30/98

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2730 - VOICE NETWORK TRANSMISSION

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04

===== =
 [PRD] DATABASE RECORD: 266278 REQUIREMENT STATUS: APPROVED R
 DOCUMENT ID: FLT-I APPROVAL DATE: 09/27/02
 INITIAL DATE: 03/29/88
 ITEM NUMBER: H7G DATE LAST CHANGED: 01/20/04
 SECTION: 2730 TIME LAST CHANGED: 10:21:29
 REQUESTER: MSFC
 TEST CODE: ALPHSE STSALL
 TRACKING NO. F02-09-5

1. DESCRIPTION: VOICE LINES

Provide the following voice service as outlined below:

REF	TYPE OF SERVICE	FROM	TO	REMARKS
H7	DUPLEX 4 CKTS	GSFC	MSFC	

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/16/03

 [PRD] DATABASE RECORD: 272846 REQUIREMENT STATUS: APPROVED R
 DOCUMENT ID: FLT-I APPROVAL DATE: 09/27/02
 INITIAL DATE: 10/28/87
 ITEM NUMBER: H8GT DATE LAST CHANGED: 01/20/04
 SECTION: 2730 TIME LAST CHANGED: 10:22:01
 REQUESTER: MSFC
 SUBREQUESTER: JSC/MT3
 TEST CODE: ALPHSE STSALL TVPLAN
 TRACKING NO. F02-09-5

1. DESCRIPTION: VOICE LINES

Provide the following voice service as outlined below:

REF	TYPES OF SERVICE	FROM	TO	REMARKS
T1	DUPLEX 4 CKTS	MSFC	JSC	

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2730 - VOICE NETWORK TRANSMISSION

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04

CONTINUED

[PRD] DATABASE RECORD: 272846
ITEM NUMBER: H8GT

T2 DUPLEX JSC MSFC
19 CKTS

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/06/03

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/27/02

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04
===== =
[PRD] DATABASE RECORD: 513735 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 08/20/03
INITIAL DATE: 11/14/91
ITEM NUMBER: HT26EGKX DATE LAST CHANGED: 01/20/04
SECTION: 2734 TIME LAST CHANGED: 10:18:05

REQUESTER: MSFC JSC
SUBREQUESTER: F111-3
TEST CODE: EORBIT STSALL TVPLAN
TRACKING NO. F03-08-2 F102-3 F103-2 F111-3 F111-7
F112-1 F206-10 F206-3 F206-5 F207-7
F801-2 F802-1

1. DESCRIPTION: TELEVISION TRANSPONDER SUPPORT FOR SHUTTLE FLIGHTS

Control and scheduling of Satellite AMC-9 Transponder 5 and Transponder 9 are a function of NISN. During Shuttle flights, operational control of these transponders is delegated to Houston TV who acts on behalf of the Flight Director.

General use of these transponders is as follows:

LAUNCH

Transponder 5 - multiplexed video from KSC to support operational needs of the Marshall ICE team and the JSC MER.

Transponder 9 - support of launch coverage for Public Affairs Office (PAO) and operations as NASA Select.

ON-ORBIT:

Transponder 5 - support of Shuttle TDRSS wideband data and television downlink.

Transponder 9 - support of PAO as NASA Select. Also used for transmission of the S-Band downlinked video from MIL to JSC.

LANDING:

Transponder 5 - support of operational television requirements of the MER for post-flight documentation of Orbiter condition.

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04

CONTINUED

[PRD] DATABASE RECORD: 513735
ITEM NUMBER: HT26EGKX

Transponder 9 - support of operational and PAO coverage of landing from acquisition through crew egress.

TRANSPONDER AUDIO CHANNELS:

Transponder 9 - has two audio channels one for program audio and the other for timing data associated with tape replays.

Transponder 5 - has one audio channel for timing data during tape replays.

TRANSPONER UPLINK/DOWNLINK CAPABILITIES

SITE	TRANSPONDER 9 UPLINK/DOWNLINK		TRANSPONDER 5 UPLINK/DOWNLINK	
KSC/MILA	X	X	X	X
MSFC	X	X	X	X
JSC	X	X	X	X
GSFC	X	X		X
WSC	X	X	X	X
DFRC	X	X		X

NOTE: 1. Depending on flight real-time requirements and PAO special events, priorities and configurations may change and are to be coordinated through Houston TV and GSFC NISN. Generally, transponder 9 will be used for "public access" and will normally carry NASA Select television. Transponder 5 is designated for operational use.

REF: LLS 2734 HT33EG 514040
FLS 2700 T34G 520565

SUPPLIER: ER AGENCY: 45 RANS/DOS (E - 45TH SPACE WING)
SUBSUPPLIER: WR

SUPPLIER COMMITMENT: NOACK RESPONSE DATE: 08/20/03

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04

CONTINUED

[PRD] DATABASE RECORD: 513735
ITEM NUMBER: HT26EGKX

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 12/16/03
RESPONSE: This transponder is shared with Landsat project.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

SUPPLIER COMMITMENT: NOACK RESPONSE DATE: 08/20/03

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)

SUPPLIER COMMITMENT: NOACK RESPONSE DATE: 08/20/03

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04

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[PRD] DATABASE RECORD: 290507 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 10/20/03
INITIAL DATE: 01/17/90
ITEM NUMBER: DGHT12.1T DATE LAST CHANGED: 10/20/03
SECTION: 2750 TIME LAST CHANGED: 12:28:30

REQUESTER: DDMS GSFC MSFC
JSC
TEST CODE: CKT12 DDMS EAFB ER
LATROT STSALL WSSH
TRACKING NO. F02-06-2 F03-05-1 F03-10-2 F203-8 F209-6
F804-1

1. DESCRIPTION: FLIGHT DIRECTOR (FD)
RESPONSIBLE AGENCY: JSC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
T1		T		MCC for distribution
T2		T	1,2	Extend to KSC
G3		M		Extend to GSFC
H4		M		Extend to MSFC
T5		M	1,2	Extend to DFRC

NOTE: 1. This loop also contained in L&L PRD.
REF: GTK79.1T LLS 2750 DBR 283982
2. Configure for talk at Launch and Landing.

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/20/03

[PRD] DATABASE RECORD: 388962 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 05/24/02
INITIAL DATE: 09/26/91
ITEM NUMBER: DEHKT12.6K DATE LAST CHANGED: 11/12/02
SECTION: 2750 TIME LAST CHANGED: 14:38:14

REQUESTER: DDMS ER MSFC
KSC JSC
SUBREQUESTER: PK-D2
TEST CODE: CKT12 EMCC ER LATROT
STSALL
TRACKING NO. F02-06-2 F109-6 F110-1 F208-3 F302-8
RSRR5502

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04

CONTINUED

[PRD] DATABASE RECORD: 388962
 ITEM NUMBER: DEHKT12.6K

1. DESCRIPTION: FLIGHT DIRECTOR (FD)
 RESPONSIBLE AGENCY: KSC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
T1		T	1	CDSC for distribution
E2		T	1	CDSC extend to CCAFS X-Y Bldg.
				LCC1/3
T3		T		LAUNCH DIRECTOR, CON AA5
T4		T		NASA TEST DIRECTOR, CON AB5
T5		T		LANDING/RECOVERY DIRECTOR, CON AB8
K5.1		M	2	INTEG, CONS 0155/0655 A1,A2,A3 & A7
K5.2		M	2	BACKUP, CONS 0156/0656 A1,A2,A3 & A7
K5.3		M	3	CONSOLE AA1
				LCC1/3 OSR
T6		M		DD, SS OPS, CON A4
T7		M		FCOD, CON A6
T8		M		ORBITER, CON A10
T9		M		JSC POSITION, CON A7
				LCC1/3 OMR
K10		M		KSC DIRECTOR, CON A5
H11		M		MSFC DIRECTOR, CON A6
D12		M		DDMS, CON A9 & A10
				LCC2
K13		M	2	INTEG CONS 0231/1455 A1,A2 & A3
K14		M	2	BACKUP CONS 0232/1456 A1,A2 & A3

NOTE: 1. When required this circuit will be activated for EMCC support.
 REF: T1K FLS 3020 DBR 520264
 T1.1EK FLS 3020 DBR 520265

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04

CONTINUED

[PRD] DATABASE RECORD: 388962
ITEM NUMBER: DEHKT12.6K

T14EGKX FLS 2730 DBR 520260

NOTE 2: TALK CAPABILITY REQUIRED WHEN EMCC IS ACTIVATED.

NOTE 3: REQUIRED UPON ACTIVATION OF EMCC

TECH CONTACT: KSC R. HARRISON/PK-D2/407 861-3958

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-B2 USK-102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/13/02
RESPONSE TRACKING: ZFR5202 ZFR5504

[PRD] DATABASE RECORD: 279239 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 05/24/02
INITIAL DATE: 10/24/84
ITEM NUMBER: HT16.1T DATE LAST CHANGED: 02/12/04
SECTION: 2750 TIME LAST CHANGED: 11:29:46

REQUESTER: MSFC JSC
TEST CODE: ALPHSE CKT16 FULL-TIME STSALL

TRACKING NO. F02-06-2 F203-7

1. DESCRIPTION: HOSC ORDER WIRE (HOSC O/W)
RESPONSIBLE AGENCY: JSC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
T1		T		MCC distribution
H2		T		Extend to MSFC

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/24/02

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04

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[PRD] DATABASE RECORD: 276383 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 10/03/02
INITIAL DATE: 01/17/90
ITEM NUMBER: GHKTX45.1G DATE LAST CHANGED: 11/19/02
SECTION: 2750 TIME LAST CHANGED: 15:53:25

REQUESTER: GSFC MSFC KSC
JSC DFRC
TEST CODE: 30 SPW ALPHSE CKT45 EAFB
EMCC ER MIL STSALL

TRACKING NO. F02-06-2 F203-8 F208-3 F301-1 F301-3
F308-2 F310-2 F310-2A F804-1 F901-14

1. DESCRIPTION: SITE COORDINATION (SITE COORD)
RESPONSIBLE AGENCY: GSFC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
---	-----	---	----	-----
T1		T		GSFC for distribution
T2		T		Extend to JSC
T3		T		GSFC MSC
T4		T		Extend to CCAS X-Y via CDSC
G5		M		Extend to KSC/CDSC for distribution
H6		M		Extend to MSFC Comm Bldg. 4207 for Dist.
T7		T		Extend to WSMR via WSC
T8		T		Extend to GN
G9		T		Extend to WSC
T10		T		Extend to DFRC

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/02

[PRD] DATABASE RECORD: 17643 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 02/10/89
INITIAL DATE: 02/10/89
ITEM NUMBER: H45.6GH DATE LAST CHANGED: 11/19/02
SECTION: 2750 TIME LAST CHANGED: 15:53:25

REQUESTER: MSFC
SUBREQUESTER: MSFC/EO32
TEST CODE: ALPHSE CKT45 STSALL

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04

CONTINUED

[PRD] DATABASE RECORD: 17643
ITEM NUMBER: H45.6GH

TRACKING NO. F901-14

1. DESCRIPTION: SITE COORDINATION (SITE COORD)

RESPONSIBLE AGENCY: MSFC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
H1		M		COMM Bldg. 4207 for Dist.
H2		M		MSFC OPS, MSFC Data and COMM Control, Bldg. 4663

TECHNICAL CONTACT: MSFC/FD43/NELDA HILEY/256 544-5774
GSFC/450/T.SOBCHAK/301 286-7813

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/89

SUPPLIER: MSFC AGENCY: MSFC/FD43 (MARSHALL SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/18/90

[PRD] DATABASE RECORD:	319763	REQUIREMENT STATUS:	APPROVED R
DOCUMENT ID:	FLT-I	APPROVAL DATE:	01/08/03
		INITIAL DATE:	01/17/90
ITEM NUMBER:	HKTY46.1T	DATE LAST CHANGED:	02/12/04
SECTION:	2750	TIME LAST CHANGED:	13:17:50

REQUESTER:	MSFC	KSC	JSC
	NASA HQ		
SUBREQUESTER:	PZ-A3		
TEST CODE:	CKT46	EAFB	LATROT STSALL

TRACKING NO. F03-01-1 F204-10 F908-1

1. DESCRIPTION: SPACE SHUTTLE PROGRAM OFFICE (SSPO)
RESPONSIBLE AGENCY: JSC

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04

CONTINUED

[PRD] DATABASE RECORD: 319763
ITEM NUMBER: HKTY46.1T

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
T1		T		MCC for distribution
T2		T		Extend to JSC MER
T3		T		Extend to DFRC
T4		T		Extend to GSFC
H5				Extend to MSFC
K6		T		Extend to KSC

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/08/03

[PRD] DATABASE RECORD: 330185 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 10/25/84
INITIAL DATE: 10/25/84
ITEM NUMBER: H46.4H DATE LAST CHANGED: 09/03/02
SECTION: 2750 TIME LAST CHANGED: 08:16:41

REQUESTER: MSFC
TEST CODE: CKT46 LATROT STSALL

1. DESCRIPTION: SPACE SHUTTLE PROGRAM OFFICE (SSPO)
RESPONSIBLE AGENCY: MSFC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
H1		T		Bldg 4207 for distribution to HOSC

SUPPLIER: MSFC AGENCY: MSFC/FD43 (MARSHALL SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/25/84

[PRD] DATABASE RECORD: 289849 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 11/19/91
INITIAL DATE: 11/19/91
ITEM NUMBER: HT51.5H DATE LAST CHANGED: 02/12/04
SECTION: 2750 TIME LAST CHANGED: 13:21:59

REQUESTER: MSFC JSC

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04

CONTINUED

[PRD] DATABASE RECORD: 289849
ITEM NUMBER: HT51.5H

SUBREQUESTER: JSC/MT3 TVPLAN
TEST CODE: ALPHSE CKT51 FULL-TIME STSALL

TRACKING NO. F111-4 F302-9 RSRR145

1. DESCRIPTION: TELEVISION CONFERENCE (TV CONF)
RESPONSIBLE AGENCY: MSFC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
T1		T		Term. in Bldg 4207, Rm 107, CDC of MSFC
H2		T	1	EXTEND TO GE AMERICAN EARTH STATION

NOTE 1 - EXTEND CIRCUIT TO GE EARTH STATION VIA FOUR WIRE
VOICE CIRCUIT TERMINATION ON A DESK OR WALL INSTRUMENT
(WHICHEVER STATION MANAGER DESIRES) WITH A PUSH TO TALK
SWITCH AND SPEAKER MUTING WHEN PTT SWITCH IS ACTIVATED.

SUPPLIER: MSFC AGENCY: MSFC/FD43 (MARSHALL SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/19/93

[PRD] DATABASE RECORD: 16069 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 04/03/98
INITIAL DATE: 03/08/90
ITEM NUMBER: GHT65G DATE LAST CHANGED: 02/12/04
SECTION: 2750 TIME LAST CHANGED: 13:22:59

REQUESTER: GSFC MSFC JSC
SUBREQUESTER: JSC/DV
TEST CODE: ALPHSE CKT65 FULL-TIME STSALL

TRACKING NO. F404-1

1. DESCRIPTION: MDM COORD
RESPONSIBLE AGENCY: GSFC

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04

CONTINUED

[PRD] DATABASE RECORD: 16069
ITEM NUMBER: GHT65G

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
G1		T		Extend to WSC
T2		T		Extend to JSC
H3		T		Extend to MSFC (4207) for Distribution

TECHNICAL CONTACTS: MSFC/FD43/N.HILEY/256 544-5774
JSC/DV/K. JONES/281 483-7671

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/03/98

[PRD] DATABASE RECORD: 518994 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 03/16/92
INITIAL DATE: 03/16/92
ITEM NUMBER: H66.3T DATE LAST CHANGED: 09/03/02
SECTION: 2750 TIME LAST CHANGED: 09:12:50

REQUESTER: MSFC
TEST CODE: ALPHSE CKT66 STSALL
TRACKING NO. F203-8 F203-8A

1. DESCRIPTION: STAFF ENGINEER

RESPONSIBLE AGENCY: MSFC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
T1		T		MSFC FOR DISTRIBUTION

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/16/92

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04

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[PRD] DATABASE RECORD:	568093	REQUIREMENT STATUS:	APPROVED R
DOCUMENT ID:	FLT-I	APPROVAL DATE:	11/19/02
		INITIAL DATE:	
ITEM NUMBER:	HT150.3H	DATE LAST CHANGED:	12/12/03
SECTION:	2750	TIME LAST CHANGED:	11:44:13
REQUESTER:	MSFC	JSC	
TEST CODE:	CKT150	STSALL	
TRACKING NO.	F02-11-5		

1. DESCRIPTION: TN COORD

RESPONSIBLE AGENCY: MSFC

REF	CAP	TERMINATION LOCATION
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H1	M	MSFC LOCAL DISTRIBUTION

SUPPLIER: MSFC AGENCY: MSFC/FD43 (MARSHALL SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/12/03

[PRD] DATABASE RECORD:	567701	REQUIREMENT STATUS:	APPROVED R
DOCUMENT ID:	FLT-I	APPROVAL DATE:	11/14/02
		INITIAL DATE:	
ITEM NUMBER:	GHT157G	DATE LAST CHANGED:	02/12/04
SECTION:	2750	TIME LAST CHANGED:	13:27:01
REQUESTER:	GSFC	MSFC	JSC
TEST CODE:	FULL-TIME	STSALL	

ASSOCIATED DOC: ISS VOL-I
TRACKING NO. F02-11-3

1. DESCRIPTION: NISN COMM COORD

Responsible Agency: GSFC

REF	CAP	NOTE	TERMINATION LOCATION
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T1	T/M	1	EXTEND TO JSC
H2	T/M	1	EXTEND TO MSFC
G3	T/M	1	DISTRIBUTION TO GSFC NISN INTERNAL AREAS

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04

CONTINUED

[PRD] DATABASE RECORD: 567701
 ITEM NUMBER: GHT157G

NOTE: 1. Orderwire between JSC OST, GSFC COMM Manager, and MSFC NISN
 Service Group for all NISN related voice and data issues.

REF: ISS VOL-I ITEM GHT8G SECTION 2750 DBR 561754

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/22/02

[PRD] DATABASE RECORD: 557526 REQUIREMENT STATUS: APPROVED R
 DOCUMENT ID: FLT-I APPROVAL DATE: 11/14/02
 INITIAL DATE: 11/06/00
 ITEM NUMBER: GHT157.1T DATE LAST CHANGED: 02/12/04
 SECTION: 2750 TIME LAST CHANGED: 13:27:33

REQUESTER: GSFC MSFC JSC
 TEST CODE: FULL-TIME STSALL

ASSOCIATED DOC: ISS VOL-I
 TRACKING NO. F011-1 F02-06-2 F02-11-3

1. DESCRIPTION: NISN COMM COORD

Responsible Agency: JSC

REF	CAP	NOTE	TERMINATION LOCATION
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T1	T/M	1	MCC DISTRIBUTION

NOTE: 1. Orderwire between JSC OST, GSFC COMM MANAGER, and MSFC NISN
 Service Group for all NISN related voice and data issues.

REF: ISS VOL-I ITEM TH8.1GT SECTION ISO2750 DBR 557096

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/14/02

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04

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[PRD] DATABASE RECORD: 557526
 ITEM NUMBER: GHT157.1T

[PRD] DATABASE RECORD: 567703 REQUIREMENT STATUS: APPROVED R
 DOCUMENT ID: FLT-I APPROVAL DATE: 11/14/02
 INITIAL DATE:
 ITEM NUMBER: GHT157.2H DATE LAST CHANGED: 02/12/04
 SECTION: 2750 TIME LAST CHANGED: 13:29:10

REQUESTER: GSFC MSFC JSC
 TEST CODE: FULL-TIME STSALL

ASSOCIATED DOC: ISS VOL-I
 TRACKING NO. F01-11-3

1. DESCRIPTION: NISN COMM COORD

Responsible Agency: MSFC

REF	CAP	NOTE	TERMINATION LOCATION
H1	T/M	1	DISTRIBUTION TO MSFC ENMC/RSEG
H2	T/M	2	DISTRIBUTION TO MSFC HOSC

NOTE: 1. Orderwire between JSC OST, GSFC COMM MGR, and MSFC NISN (ENMC)
 and Russian Services Engineering Group (RSEG) for all NISN
 related voice and data issues.
 2. Used for NISN voice and data communication issues between
 COMM MGR, JSC OST, MSFC IST, and others as required.

REF: ISS VOL-I ITEM GHT8.2H SECTION 2750 DBR 561755

SUPPLIER: MSFC AGENCY: MSFC/FD43 (MARSHALL SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/21/02

[PRD] DATABASE RECORD: 558795 REQUIREMENT STATUS: APPROVED R
 DOCUMENT ID: FLT-I APPROVAL DATE: 11/14/02
 INITIAL DATE: 03/29/01
 ITEM NUMBER: GHT158G DATE LAST CHANGED: 02/12/04

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04

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[PRD] DATABASE RECORD: 558795
 ITEM NUMBER: GHT158G

SECTION: 2750 TIME LAST CHANGED: 13:29:39

REQUESTER: GSFC MSFC JSC
 TEST CODE: FULL-TIME STSALL

ASSOCIATED DOC: ISS VOL-I
 TRACKING NO. F01-03-2 F02-11-3

1. DESCRIPTION: WSC PLAYBACK COORD

RESPONSIBLE AGENCY:GSFC

REF	CAP	NOTE	TERMINATION LOCATION
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T1	T/M	1	EXTEND TO JSC
H2	T/M	1	EXTEND TO MSFC
G3	T/M	1	EXTEND TO WSC

NOTE: This circuit will be used for all Shuttle and Station Playbacks.

REF: ISS VOL-I ITEM GHT13G SECTION 2750 DBR 558796

SUPPLIER: GSFC AGENCY: GSFC/450 (GODDARD SPACE FLIGHT CENTER)
 SUBSUPPLIER: WSC

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/22/02

[PRD] DATABASE RECORD: 567706 REQUIREMENT STATUS: APPROVED R
 DOCUMENT ID: FLT-I APPROVAL DATE: 11/14/02
 INITIAL DATE:
 ITEM NUMBER: GHT158.1T DATE LAST CHANGED: 02/12/04
 SECTION: 2750 TIME LAST CHANGED: 13:30:06

REQUESTER: GSFC MSFC JSC
 TEST CODE: FULL-TIME STSALL

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04

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[PRD] DATABASE RECORD: 567706
 ITEM NUMBER: GHT158.1T

ASSOCIATED DOC: ISS VOL-I
 TRACKING NO. S02-11-1

1. DESCRIPTION: WSC PLAYBACK COORD

RESPONSIBLE AGENCY: JSC

REF	CAP	NOTE	TERMINATION LACTION
T1	T/M	1	TELCOM CONSOLES

NOTE: 1. THIS CIRCUIT WILL BE USED FOR ALL SHUTTLE AND STATION
 PLAYBACKS.

REF: ISS VOL-I ITEM GHT13.1T SECTION 2750 DBR 561724

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/14/02

[PRD] DATABASE RECORD:	567707	REQUIREMENT STATUS:	APPROVED R
DOCUMENT ID:	FLT-I	APPROVAL DATE:	11/14/02
		INITIAL DATE:	
ITEM NUMBER:	GHT158.2H	DATE LAST CHANGED:	02/12/04
SECTION:	2750	TIME LAST CHANGED:	13:30:27

REQUESTER: GSFC MSFC JSC
 TEST CODE: FULL-TIME STSALL

ASSOCIATED DOC: ISS VOL-I
 TRACKING NO. S02-11-1

1. DESCRIPTION: WSC PLAYBACK COORD

RESPONSIBLE AGENCY: MSFC

REF	CAP	NOTE	TERMINATION LOCATION
H1	T/M	1	MSFC LOCAL DISTRIBUTION

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
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PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04

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[PRD] DATABASE RECORD: 567707
ITEM NUMBER: GHT158.2H

NOTE: 1.THIS CIRCUIT WILL BE USED FOR ALL SHUTTLE AND STATION
PLAYBACK.

REF: ISS VOL-II ITEM GHT13.2H SECTION 2750 DBR 561725

SUPPLIER: MSFC AGENCY: MSFC/FD43 (MARSHALL SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/21/02

[PRD] DATABASE RECORD: 563578 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 07/25/02
INITIAL DATE:
ITEM NUMBER: GH161G DATE LAST CHANGED: 02/12/04
SECTION: 2750 TIME LAST CHANGED: 13:31:38

REQUESTER: GSFC MSFC
TEST CODE: CKT161 FULL-TIME STSALL

1. DESCRIPTION: GSFC/MSFC COORD

RESPONSIBLE AGENCY: GSFC

REF	CAP	NOTE	TERMINATION LOCATION
H1	T		Extend to MSFC
G2	T		Extend to KSC/CDSC
G3	T		Extend to WSC
G4	T		GSFC Local Distribution

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/03

[PRD] DATABASE RECORD: 563579 REQUIREMENT STATUS: APPROVED R
DOCUMENT ID: FLT-I APPROVAL DATE: 07/25/02
INITIAL DATE:
ITEM NUMBER: GH161.1H DATE LAST CHANGED: 02/12/04
SECTION: 2750 TIME LAST CHANGED: 13:31:59

REQUESTER: GSFC MSFC
TEST CODE: CKT161 FULL-TIME STSALL

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 06/30/04

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[PRD] DATABASE RECORD: 563579
ITEM NUMBER: GH161.1H

1. DESCRIPTION: GSFC/MSFC COORD

RESPONSIBLE AGENCY: MSFC

REF	CAP	NOTE	TERMINATION LOCATION
H1	T		Extend for MSFC Distribution

SUPPLIER: MSFC AGENCY: MSFC/FD43 (MARSHALL SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/12/03

[PRD] DATABASE RECORD:	563580	REQUIREMENT STATUS:	APPROVED R
DOCUMENT ID:	FLT-I	APPROVAL DATE:	07/25/02
		INITIAL DATE:	
ITEM NUMBER:	GH161.2K	DATE LAST CHANGED:	02/12/04
SECTION:	2750	TIME LAST CHANGED:	13:32:40

REQUESTER:	GSFC	MSFC
TEST CODE:	CKT161	FULL-TIME STSALL

1. DESCRIPTION: GSFC/MSFC COORD

RESPONSIBLE AGENCY: KSC/CDSC

REF	CAP	NOTE	TERMINATION LOCATION
G1	T		Extend to MIL

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

SUPPLIER COMMITMENT: NOACK RESPONSE DATE: 07/25/02

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